



Volume 23

An ARCEC Monthly Publication

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*Counterpoise Editor - Sue Robins AF6LJ*

## Homebrew, Nominations, & More

*By Sue Robins AF6LJ, Pictures by Pat Bunsold WA6MHZ, and Sue Robins AF6LJ*

November is a busy month for ARCEC members. The November meeting was packed with Officer nominations and the Homebrew Contest, Ham of the Year nominations, plans for the annual Christmas party, and this year we decided to raise money for a new repeater.

Starting off, Pat Bunsold WA6MHZ gave a presentation on his homebrew power supply, tuner



to insuring the amplifier is not overdriven, and for proper tuning.

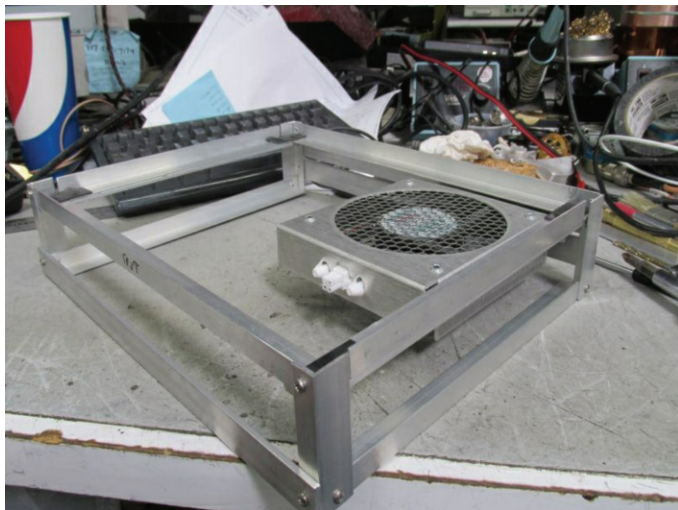
With the amplifier modified work continued on the power supply which contains the necessary keying circuit to control the amplifier and a relay slaved to the amplifier's on / off switch in order to keep the whole of the operating current out of the amplifier's power switch and to allow for lighter gauge wire in the interconnect cable which was put together out of readily available multi conductor



and modified Heathkit HA-14 compact KW amplifier. Pat discussed the issues with obtaining parts, building a chassis from discreet pieces of aluminum. The power supply presented a challenge in that the only available transformer was one that was used in an Heath SB-200. The HA-14 was intended to be used with a 12V filament voltage source, the Heath transformer provided only 6.0VAC, this made modifying the Heath HA-14 necessary in order to accommodate the lower voltage. One other modification to the amplifier was to add grid circuit metering, critical







cable. Cooling needed to be arranged for the amplifier and was accomplished by fabricating a stand for the amplifier with the fan underneath. HA-14s are known for running quite hot, to the point of discoloring the paint on the top cover.

The next item was to mate it all up with a tuner, which you can see in the picture on Page-1. The tuner is also homebrew and was made from parts acquired at the ARRL Centennial convention. It is expected we shall see the amplifier / power supply / tuner combination at the Fry's Operating Event December 11<sup>th</sup>.

We were also treated to a visit by Past President Dan Peterson W7OIL gave a presentation showing his WW2 replica of a transmitter used by resistance fighters, the Paraset replica was built in a European style recipe file box, that was in common use at the time. The Paraset was modified to tune only 40 meters and is completely self contained. The transmitter puts out 2 watts and will match a wide range of antennas.



The transmitter runs on a 12V DC power supply and contains a DC to DC converter that provides plate voltages. For more information on the Paraset see <http://en.wikipedia.org/wiki/Paraset>

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## HRO Swapmeet And Store Event



## ARCEC Repeater Frequencies

2 Meter Repeater	220 MHZ Repeater	440 MHZ Repeater
TX 146.475	TX 222.480	TX 440.900
RX 147.420	RX 224.080	RX 445.900
Offset .945	Offset 1.6	Offset 5.00
PL 107.2	PL 107.2	PL 107.2





The San Diego Ham Radio Outlet store held a swapmeet and store event on Saturday November 8<sup>th</sup>. The parking lot was filled early on with tables loaded with radio gear, test equipment and all manner of amateur radio related items. There was a large crowd and ARCEC was well represented, with a well staffed information table. A drawing was held every hour throughout the event and many prizes were given away

The event was a great success and many expressed the desire to see this event happen on a regular basis. This was my third time attending the HRO event, and each time the San Diego store did a brisk business along with those in the parking lot selling their wares.

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## Club Happenings

Officer and board member elections will be held at our December meeting, here are the nominations.

President	Dave Ward	KD6DW
Vice .President.	Peter Krause	KJ6VCM
Secretary	Sue Robins	AF6LJ
Treasurer	George Fish	KJ6WWM
Board Members	Chuck Wood	WD6APP
	Jack Moran	N6FUG
	Pat Bunsold	WA6MHZ
	Paul Thompson	KJ6BYF
	Joe Bennett	W6VMX
	Quinn Lacey	KI6LAT
Past President.	Pat Bunsold	WA6MHZ

In addition to the discussions regarding elections it was brought to the club's attention that Yaesu is promoting their System Fusion digital / analogue repeaters. Yaesu is making their DR-1X repeater available at reduced price for the next few months. The information was well received at the club meeting and several people pledged money to cover one repeater, talk of obtaining two one for VHF and one for UHF could be a reality given enough member pledge money for the repeaters. The offer is good until the end of March. This would be a very good upgrade of our communications system, providing new gear for the two most used repeaters we have.

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## Next Month's Meeting

December brings us Officer and Board of Directors elections. The annual Christmas Party, will be held then with a drawing for prizes and a pot luck dinner. We hope to see you there.

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## Club Shirts & Jackets

We have 2013 club shirts and jackets available at meetings. Shirts are available sizes from small to XX large, this year's shirt has a pocket and as usual is green in color with the club logo in white. The cost is \$12.00 each. You can get a 2013 Field Day shirt or the standard club shirt, both styles of shirts have the club logo on the back and the left side.

Jackets are also available in sizes ranging from Medium to XX large. These are of the lined windbreaker style, with side pockets and they snap down the front. The cost is \$24.00 each.

We also have a number of shirts from 2012, these shirts are identical to the 2013 shirts without the pocket, and they are available in both the standard club shirt and the 2012 Field Day shirt. Sizes are limited to stock on hand.

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## The San Diego Morse Code Practice Group

Mark Wardwell KB6PJU has been running a code practice group on the WA6BGS VHF and UHF repeaters. The repeaters are linked to accommodate the needs and accessibility of all who wish to participate. The code practice Group meets at 7:00 PM Pacific time on Tuesdays, Thursdays, and Saturdays.

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## Club Membership & Dues

Club dues and new memberships can now be paid online. The Amateur Radio Club of El Cajon website [wa6bgs.us](http://wa6bgs.us) has been updated to accept membership dues, and new members. The link is at the top of the page, just follow the instructions on the Join / Renew page. Our website is a work in progress and there will be more good things to follow in the months ahead, so visit often.

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## Fry's Electronics Operating Day

Saturday December 13<sup>th</sup> there will be a Operating Day event at Fry's Electronics in the parking lot. San Diego Six Shooters in cooperation with Fry's electronics will be holding the operating event to expose the public to amateur radio, all clubs are invited and there will be demonstrations of all manner of amateur radio gear, including ARCEC's station and portable 100' tower.



If you have something you would like to see in Counterpoise, anything of interest to our members. Your homebrew projects, articles pertaining to local activities or your thoughts on amateur radio current events, send that content to [counterpoise@wa6bgs.us](mailto:counterpoise@wa6bgs.us) You are what makes the Amateur Radio Club of El Cajon, we wouldn't exist without you the membership. Join us at our meetings and activities and become a part of the club.





The **AMATEUR RADIO CLUB OF EL CAJON**<sup>Inc.</sup>  
**WA6BGS**

Post Office Box Fifty, El Cajon California 92022

Founded 1960 ~ Incorporated 1976

Please fill out this form and then see options at bottom for submitting to the club

Date of application: \_\_\_ / \_\_\_ / \_\_\_

Amount Paid: \$ \_\_\_\_\_ Cash    Check    Check # \_\_\_\_\_

Membership Type:    Individual (\$20/year)    Family\* (\$35/year)

Membership Status:    New    Renewal    Returning Member

Call Sign    First Name \_\_\_\_\_ Last Name \_\_\_\_\_

If a previous member, what was your WAMO number?

ARRL Member:    Yes    No

License Class:    Technician    General    Extra    Other

Email Address (required) \_\_\_\_\_

Phone Number (optional) \_\_\_\_\_

*\*Use another sheet of paper to add Family members and please include the following information:*

First Name, Last Name, Call Sign (if any), License Class, Wamo Number (if any), & Email Address.

**Submitting this form:**

To submit this form, you can mail it to:

**Amateur Radio Club of El Cajon  
P.O. Box 50  
El Cajon, CA 92022**

-OR-

Bring it to the next club meeting on the second Thursday of each month. You can find the date and location by getting online at [www.wa6bgs.us](http://www.wa6bgs.us) which is the club website. Check it out for the most current information regarding the club.

**Cash Payments - Get a receipt from the Club Treasurer. Please make all checks payable to AMATEUR RADIO CLUB of EL CAJON, Incorporated. Receipts for payments by check will be sent by email or regular mail by the Club Treasurer.**

**Members with an FCC Call Sign are full members with voting privileges. Members without an FCC Call Sign are Associate members without voting privileges.**

**YOUR DUES ARE TAX DEDUCTIBLE: Amateur Radio Club of El Cajon, Inc. Is a 501 C 7 Corporation. Donations are NOT tax deductible.**

**Email address and phone number are to allow club officers to contact members regarding club business and information of interest.**